

1 What is claimed is:

- 2 1. An umbrella assembly structured for use during strong wind
3 conditions, said umbrella assembly comprising:
4 a) a frame assembly including an elongated support pole,
5 b) said frame assembly comprising a plurality of ribs and
6 a plurality of struts movably connected to said
7 support pole,
8 c) said plurality of ribs and said plurality of struts
9 collectively disposable in an open position and in a
10 closed position, and
11 d) a reinforcing assembly connected to said frame in a
12 supporting orientation relative to at least a
13 correspondingly one of said plurality of ribs and
14 struts.
- 15 2. An umbrella assembly as recited in claim 1 wherein said
16 reinforcing assembly is selectively positionable into and
17 out of said supporting orientation.
- 18 3. An umbrella assembly as recited in claim 2 wherein said
19 reinforcing assembly is removably connected to said frame.
- 20 4. An umbrella assembly as recited in claim 1 wherein said
21 reinforcing assembly is removably connected to said frame.
- 22 5. An umbrella assembly as recited in claim 1 wherein said
23 reinforcing assembly comprises at least one auxiliary strut
24 having an elongated configuration connected in supporting
25 relation to at least one of said plurality of ribs or one

1 of said plurality of struts when said reinforcing assembly
2 is in said supported orientation.

3 6. An umbrella assembly as recited in claim 5 wherein said
4 auxiliary strut is interconnected between two
5 correspondingly positioned ones of said plurality of ribs
6 and said plurality of struts.

7 7. An umbrella assembly as recited in claim 6 wherein said
8 auxiliary strut comprises a first end connected to said one
9 correspondingly positioned rib and a second end connected
10 to said one correspondingly positioned strut.

11 8. An umbrella assembly as recited in claim 7 wherein at least
12 one of said first or second ends is removably connected to
13 a respective one of said correspondingly positioned ribs
14 and struts.

15 9. An umbrella assembly as recited in claim 8 wherein the
16 other of said first or second ends is movably connected to
17 a respective one said correspondingly positioned ribs and
18 struts.

19 10. An umbrella assembly as recited in claim 7 wherein said
20 auxiliary strut is removably connected to both of said
21 correspondingly positioned ones of said plurality of ribs
22 and said plurality of struts.

23 11. An umbrella assembly as recited in claim 1 wherein said
24 reinforcing assembly comprises a plurality of auxiliary
25 struts, each auxiliary strut connected in supporting

1 relation to a different at least one of said plurality of
2 ribs or at least one of said plurality of struts to define
3 said supporting orientation.

4 12. An umbrella assembly as recited in claim 11 wherein each of
5 said plurality of auxiliary struts is interconnected to a
6 different pair of correspondingly positioned ones of said
7 plurality of ribs and struts.

8 13. An umbrella assembly as recited in claim 12 wherein each of
9 said plurality of auxiliary struts is movably connected to
10 one and removably connected to the other of a respective
11 pair of ribs and struts.

12 14. An umbrella assembly as recited in claim 12 wherein each of
13 said plurality of auxiliary struts is removably connected
14 to each of a respective pair of said ribs and struts.

15 15. An umbrella assembly as recited in claim 12 wherein said
16 plurality of auxiliary struts are equal in number to the
17 number of pairs of correspondingly positioned ribs and
18 struts.

19 16. An umbrella assembly structured for use during strong wind
20 conditions, said umbrella assembly comprising:

21 a) a frame assembly comprising a support pole and a
22 plurality of ribs connected to said support pole and
23 structured to support a canopy thereon,

24 b) said frame assembly further comprising a plurality of
25 struts each movably interconnected between said

1 support pole and a correspondingly disposed rib,

2 c) a reinforcing assembly connected to said frame in
3 supporting relation to at least one pair of
4 correspondingly disposed ribs and struts, and

5 d) said plurality of ribs and struts collectively movable
6 relative to said support pole for orientation of said
7 frame in either an open position or a closed position.

8 17. An umbrella assembly as recited in claim 16 wherein said
9 plurality of said ribs and struts are collectively
10 positioned to dispose said canopy in a substantially
11 outwardly extending, flat orientation when said frame
12 assembly is in said open position.

13 18. An umbrella assembly as recited in claim 16 further
14 comprising a base connected in supporting relation to said
15 support pole and mounted on a marine craft.

16 19. An umbrella assembly as recited in claim 18 wherein said
17 support pole is removably connected to said base.

18 20. An umbrella assembly as recited in claim 16 wherein said
19 reinforcing assembly comprises at least one auxiliary strut
20 interconnected in a supporting orientation between said one
21 pair of supporting ribs and struts, when said frame
22 assembly is in said open position.

23 21. An umbrella assembly as recited in claim 20 wherein said
24 one auxiliary strut is pivotally connected to one and
25 removably connected to the other of said one pair of ribs

and struts.

22. An umbrella assembly as recited in claim 20 wherein said one auxiliary strut is removably connected to said one pair of ribs and struts.

23. An umbrella assembly as recited in claim 16 wherein said reinforcing assembly comprises a plurality of reinforcing struts each connected in a supporting orientation to a different pair of correspondingly disposed ribs and struts at least when said frame assembly is said open position.

24. An umbrella assembly structured for use during strong wind conditions, said umbrella assembly comprising:

a) a frame assembly comprising a support pole and a plurality of ribs connected to support pole and structured to support a canopy thereon,

b) said frame assembly further comprising a plurality of struts each movably interconnected between said support pole and a correspondingly disposed rib,

c) said plurality of ribs and struts collectively movable relative to said support pole for orientation of said frame assembly in either an open position or a closed position,

d) a reinforcing assembly comprising a plurality of auxiliary struts each connected in a supporting orientation to a different pair of correspondingly disposed ribs and struts at least when said frame is

1 in said open position, and

2 e) a base structured to be mounted on a marine craft and
3 connected in supporting relation to said support pole.

4 25. An umbrella assembly as recited in claim 24 wherein said
5 plurality of ribs and struts are collectively structured to
6 dispose said canopy in a substantially outwardly extending,
7 flat orientation when said frame assembly is in said open
8 position.

9 26. An umbrella assembly as recited in claim 24 wherein said
10 support pole is removably connected to said base.

11 27. An umbrella assembly as recited in claim 24 wherein each of
12 said auxiliary struts are removably disposed in said
13 supporting orientation.